TYPHOON SALLY - 030000Z to 101800Z SEPTEMBER

I. DATA

A. Statistics

1. Calendar days of tropical warning - 8
2. Calendar days of typhoon intensity - 6½
3. Total distance traveled during tropical warning period - 2832 mi

B. Characteristics as a typhoon

1. Minimum observed SLP - 894mb, 081030Z
2. Minimum observed 700mb height - 2179m, 072207Z
3. Maximum surface wind - 170 kts
4. Max radius of surface circulation - 425 mi

II. DEVELOPMENT

A. Initial impetus - Superposition of Polar Trough with easterly wave and subsequent fracture

B. Initial surface vortex

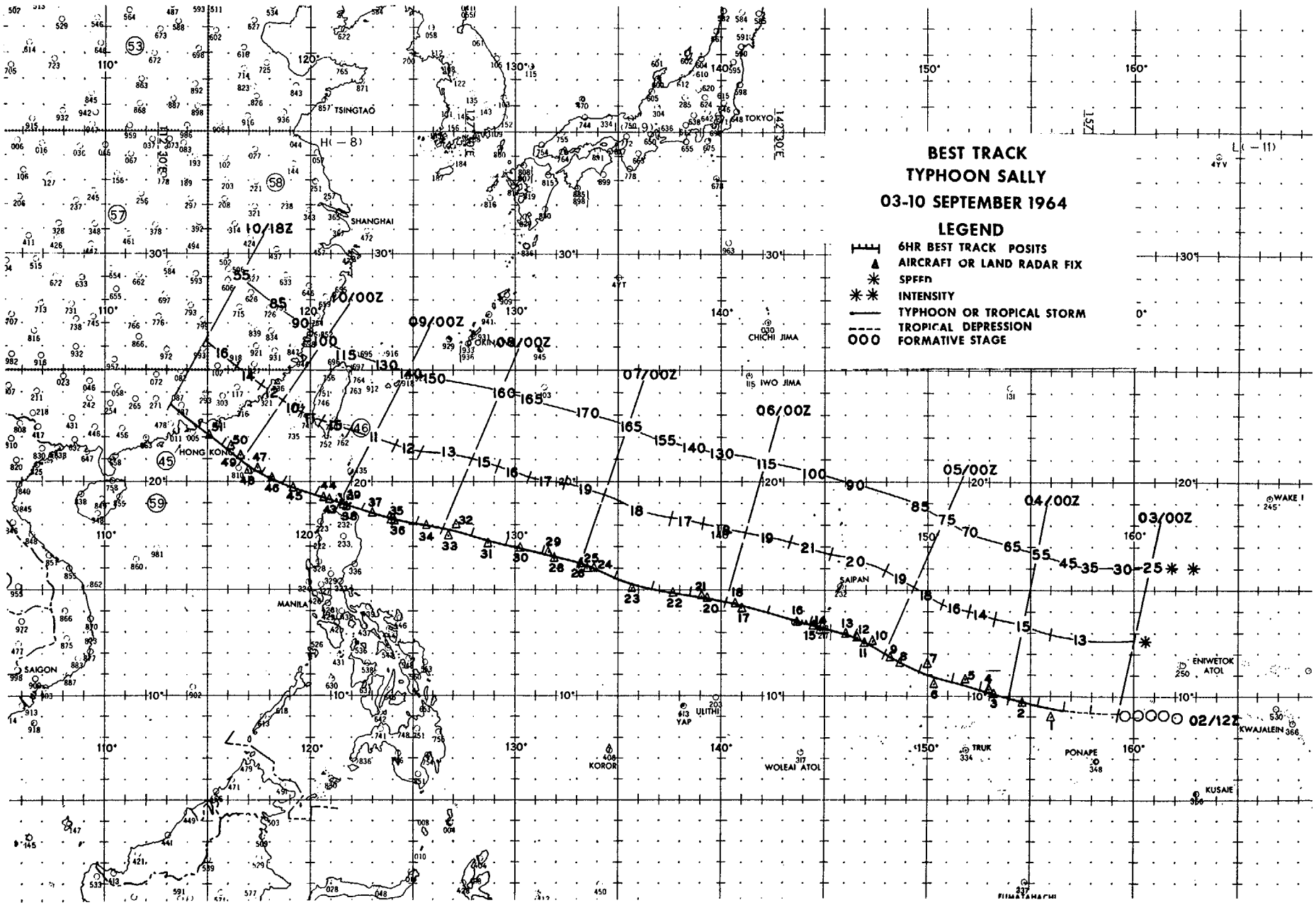
1. Junction vortex at 021200Z
2. Surface pressure less than 1008mb

C. 200mb flow above surface vortex

1. Initial - SW quadrant of anticyclone
2. Upon reaching typhoon intensity - SE quadrant of anticyclone

III. FINAL DISPOSITION

A. Dissipated over land


BEST TRACK
TYPHOON SALLY
03-10 SEPTEMBER 1964
LEGEND
6HR BEST TRACK POSITS
AIRCRAFT OR LAND RADAR FIX
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
TSINGTAO
SHANGHAI
HONG KONG
MANILA
SAIGON
TOKYO
CHICHI JIMA
IWO JIMA
SAIPAN
YAP
ULITHI
KOROR
WOLEAI ATOL
TRUK
PONAPE
KWAJALEIN
KUSAIE
ENIWETOK ATOL
WAKE I
10/18Z
10/00Z
09/00Z
08/00Z
07/00Z
06/00Z
05/00Z
04/00Z
03/00Z
02/12Z

EYE FIXES TYPHOON SALLY

FIX NO.	TIME	POSIT	UNIT-METHOD -ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	REMARKS
1	032040Z	09.0N 156.0E	TIROS	---	--	--	---	---	--/--	
2	032133Z	09.9N 154.7E	54-R-10	30000ft	--	40	---	---	--/--	CIRC 10 MI DIA WALL CLD E SIDE ONLY
3	040317Z	10.1N 153.2E	54-R-5	30000ft	--	60	---	---	--/--	CIRC 25 MI DIA OPEN NW
4	040415Z	10.3N 153.0E	VW1-P-5	1000ft	--	55	997	---	24/20	CIRC 35 MI DIA BRKN WALL CLDS 10 MI THICK
5	040956Z	10.8N 151.8E	VW1-P-10	10000ft	--	40	1000	3143	10/4	CIRC 15 MI DIA OPEN SW QUAD
6	041545Z	10.7N 150.3E	VW1-P-2	10000ft	--	70	---	3087	11/4	OVAL 20 MI E/W 10 MI N/S OPEN W WALL CLD 8 MI THICK
7	042103Z	11.5N 150.0E	TIROS	---	--	--	---	---	--/--	EYE NOT VSBL
8	042143Z	11.6N 148.7E	54-R-10	30000ft	--	45	---	---	--/--	CIRC 10 MI DIA OPEN S
9	042210Z	11.8N 148.3E	56-P-5	700mb	40	55	995	3106	9/8	OVAL E-W 12 MI DIA OPEN S
10	050300Z	12.6N 147.3E	54-R-5	30000ft	--	--	---	---	--/--	5 MI DIA OPEN NE QUAD
11	050345Z	12.5N 147.0E	56-P-3	684mb	55	65	993	3033	13/11	CIRC 15 MI DIA OPEN E WALL CLDS 5 MI THICK
12	050500Z	12.7N 146.7E	LAND RADAR	---	--	--	---	---	--/--	ILL DEFINED
13	050700Z	13.0N 146.0E	LAND RADAR	---	--	--	---	---	--/--	CIRC 9 MI WALL CLDS 8 MI THICK
14	050945Z	13.2N 144.9E	VW1-P-2	1500ft	--	100	976	---	--/--	CIRC 5 MI DIA OPEN SE QUAD

FIX NO.	TIME	POSIT	UNIT-METHOD -ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	REMARKS
15	051100Z	13.3N 144.6E	LAND RADAR	---	--	--	---	---	--/--	WALL CLD W SEMI 7 MI THICK
16	051330Z	13.6N 143.6E	VW1-R-2	10000ft	--	--	---	---	--/--	CIRC 4 MI DIA OPEN E
17	052147Z	14.2N 141.0E	54-R-5	290mb	--	75	---	---	--/--	CIRC 5 MI DIA WALL CLDS 3 MI THICK
18	052227Z	14.3N 140.7E	56-P-3	700mb	100	150	---	2762	17/17	CIRC 6 MI DIA SEVERE TURBULENCE
19	051947Z	14.5N 140.5E	TIROS	---	--	--	---	---	--/--	BANDING EVIDENT
20	060326Z	14.6N 139.3E	54-R-3	30000ft	--	--	---	---	--/--	CIRC 18 MI DIA OPEN NW & SE WALL CLDS 7 MI THICK
21	060344Z	14.7N 139.2E	56-P-1	738mb	90	150	---	2758	21/--	CIRC 5 MI DIA OPEN N MODERATE CAT IN EYE
22	060950Z	14.9N 137.5E	VW1-R-5	1400ft	--	--	---	---	--/--	ELLIP 9 MI E-W 12 MI N-S WALL CLDS 9 MI THICK BRKN NE
23	061530Z	15.1N 135.7E	VW1-R-15	1400ft	--	--	---	---	--/--	CIRC 12 MI DIA WALL CLDS 9 MI THICK BRKN NW QUAD
24	062200Z	16.1N 133.8E	56-P-4	700mb	150	200	903	2253	27/17	CIRC 12 MI DIA GREEN SEA N QUAD COVERED BY WHITE SPRAY SHEET
25	062203Z	16.1N 133.7E	54-R-20	33000ft	--	60	---	---	--/--	CIRC 12 TO 18 MI EYE IS PULSATING OCNLY ASSUMING OVAL SHAPE
26	070000Z	16.2N 133.1E	56-P-4	700mb	--	200+	897	2219	29/19	CIRC 7 MI DIA HEAVY SPRAY SHEET AT SFC

FIX NO.	TIME	POSIT	UNIT-METHOD-ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	REMARKS
27	062148Z	16.0N 132.5E	TIROS	---	--	--	---	---	--/--	EYE VSBL
28	070400Z	16.4N 131.9E	54-R-5	30000ft	--	--	---	---	--/--	CIRC 15 MI DIA
29	070430Z	16.7N 131.6E	56-P-10	680mb	140	200	899	2201	25/19	CIRC 12 MI DIA
30	071000Z	17.0N 130.3E	VW1-R-5	1000ft	--	--	---	---	--/--	CIRC 12 MI DIA WALL CLDS 8 MI THICK
31	071545Z	17.2N 128.6E	VW1-R-5	10000ft	--	--	---	---	--/--	CIRC 11 MI DIA WALL CLDS 8 MI THICK
32	072108Z	18.1N 127.1E	54-R-5	30000ft	--	--	---	---	--/--	CIRC 10 MI DIA
33	072207Z	17.7N 126.7E	56-P-6	691mb	150	185	896	2179	27/21	CIRC 10 MI DIA
34	080330Z	18.0N 125.5E	54-V-30	30000ft	--	75	---	---	--/--	CIRC 10 MI DIA
35	081000Z	18.2N 124.0E	VW1-R-5	1300ft	--	--	---	---	--/--	ELLIP 14 MI N/S 9 MI E/W WALL CLD 11 MI THICK E SEMI & 7 MI W SEMI
36	081030Z	18.2N 124.1E	56-P-1	700mb	90	120	894	2201	18/17	CIRC 13 MI DIA
37	081545Z	18.6N 123.0E	VW1-R-1	9300ft	--	--	---	---	--/--	CIRC
38	082105Z	18.8N 121.8E	54-R-0	31000ft	--	--	---	---	--/--	CIRC 15 MI OPEN NW & W
39	082210Z	18.9N 121.6E	56-R-4	500mb	--	--	---	---	--/--	12 MI DIA
40	090100Z	18.8N 121.1E	LAND RADAR	---	--	--	---	---	--/--	
41	090120Z	18.8N 120.8E	LAND RADAR	---	--	--	---	---	--/--	
42	090300Z	18.6N 120.5E	LAND RADAR	---	--	--	---	---	--/--	

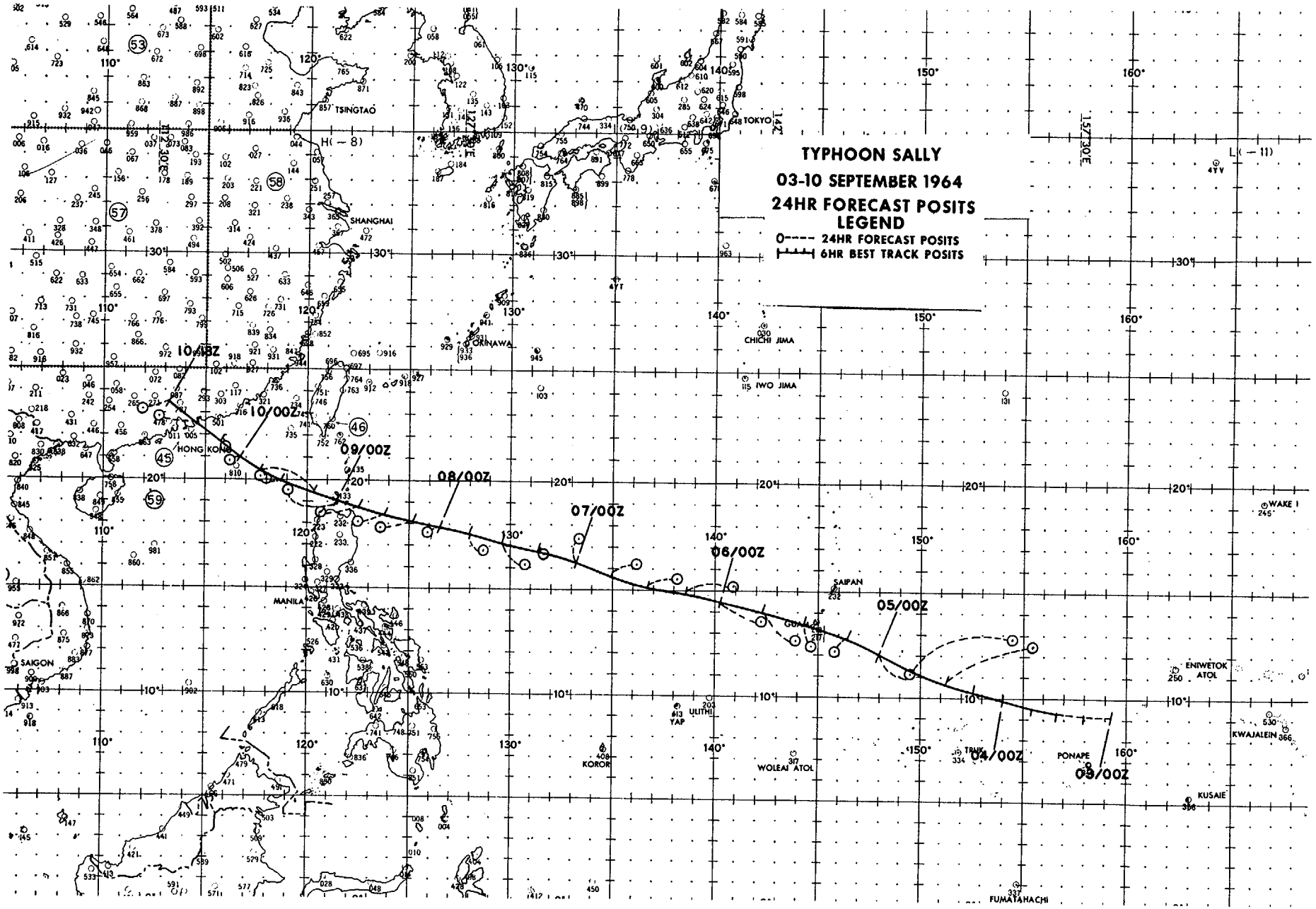
FIX NO.	TIME	POSIT	UNIT-METHOD-ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	REMARKS
43	090400Z	19.2N 120.8E	56-P-4	690mb	60	130	950	2637	14/14	CONCENTRIC INNER EYE 5 MI DIA OUTER EYE 30 MI DIA WALL CLDS 3 TO 5 MI THICK
44	090356Z	19.3N 120.6E	54-R-5	31000ft	--	--	---	---	--/--	CIRC 12 MI DIA OPEN N QUAD
45	091000Z	19.8N 119.2E	VW1-R-1	4000ft	--	--	---	---	--/--	CONCENTRIC INNER EYE 12 MI DIA OUTER EYE 25 MI DIA WALL CLDS 7 MI THICK
46	091553Z	20.3N 118.0E	VW1-R-1	10000ft	--	--	---	---	--/--	CIRC 10 MI DIA NOT SO WELL DEFINED AS PREVIOUS FIX
47	092159Z	20.7N 117.3E	54-R-10	32000ft	40	--	---	---	--/-30	CIRC 15 MI DIA OPEN W QUAD
48	092200Z	20.6N 117.0E	56-P-1	700mb	--	--	970	2822	17/14	CIRC 30 MI DIA BRKG UP IN SE
49	100300Z	21.1N 116.8E	54-R-20	32000ft	--	--	---	---	--/--	CIRC 15 MI DIA OPEN NW & S QUADS
50	100400Z	21.6N 116.1E	56-P-3	700mb	--	85	973	2859	18/15	CIRC 35-40 MI BCMG DIFFUSED OPEN N
51	100945Z	22.2N 115.0E	VW1-R-3	4000ft	--	--	---	---	--/--	CIRC 12 MI DIA

TYPHOON SALLY 03 SEPT-10 SEPT 1964
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HOUR ERROR DEG. DISTANCE	48 HOUR ERROR DEG. DISTANCE
030000Z	09.2N	159.3E	------	------
030600Z	09.3N	158.0E	------	------
031200Z	09.5N	156.7E	------	------
031800Z	09.7N	155.4E	------	------
040000Z	10.0N	154.0E	------	------
040600Z	10.3N	152.5E	------	------
041200Z	10.7N	151.2E	249-268	------
041800Z	11.1N	149.6E	251-306	------
050000Z	12.0N	148.0E	120-102	------
050600Z	12.8N	146.3E	211-51	------
051200Z	13.4N	144.3E	157-70	------
051800Z	14.0N	142.2E	130-134	------
060000Z	14.4N	140.3E	116-123	114-300
060600Z	14.8N	138.4E	081-142	126-114
061200Z	15.0N	136.7E	073-90	116-163
061800Z	15.6N	134.9E	061-75	113-212
070000Z	16.2N	133.2E	010-70	102-217
070600Z	16.8N	131.3E	095-23	080-252
071200Z	17.1N	129.6E	132-82	079-191
071800Z	17.4N	127.9E	135-56	067-190
080000Z	17.9N	126.4E	244-34	030-170
080600Z	18.0N	125.1E	259-80	028-112
081200Z	18.3N	123.7E	261-78	100-65
081800Z	18.7N	122.6E	264-110	102-10
090000Z	19.0N	121.4E	286-138	270-90
090600Z	19.4N	120.3E	288-156	267-184
091200Z	19.9N	118.7E	278-42	263-150
091800Z	20.4N	117.6E	210-14	270-163
100000Z	20.8N	116.7E	276-34	301-202
100600Z	21.6N	115.6E	137-20	305-211
101200Z	22.5N	114.6E	281-110	295-86
101800Z	23.3N	113.1E	255-67	301-27

TYPHOON SALLY 03 SEPT-10 SEPT 1964
POSITION AND FORECAST VERIFICATION DATA (CONT'D)

AVERAGE 24 HOUR ERROR 95 MI
AVERAGE 48 HOUR ERROR 155 MI


TYPHOON SALLY
03-10 SEPTEMBER 1964
24HR FORECAST POSITS
LEGEND
24HR FORECAST POSITS
6HR BEST TRACK POSITS
TSINGTAO
SHANGHAI
TOKYO
OKINAWA
CHICHI JIMA
IWO JIMA
HONG KONG
MANILA
SAIGON
SAIPAN
GUAM
YAP
ULITHI
KOROR
WOLEAI ATOL
TRUK
PONAPE
ENIWETOK ATOL
KWAJALEIN
WAKE I
KUSAIE
FUMATAHACHI
10/18Z
10/00Z
09/00Z
08/00Z
07/00Z
06/00Z
05/00Z
04/00Z
03/00Z